# *AVIONICS SIMULATION CORE (ASC)*

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Elbit Systems' ASC is a stand-alone system integrating actual aircraft avionics in a familiar PC system. The ASC includes software models for those avionics systems that need simulation, and provides a standard interface to flight simulators and avionics development systems.

The system comprises: a standard PC running Elbit Systems SimEngine software - a modern software architecture providing an advanced shell for running real-time models, and a sophisticated debugging environment with data-injection and data-monitoring facilities; industry standard PC and VME chassis interfaces to actual avionics components, and an industry standard Ethernet interface to host computer.

## Key Features

- Enables using actual aircraft avionics in software development stations and flight simulators
- Use of simulated avionics where advantageous to specific program
- Commercial I/O boards for standard avionics interfaces such as 1553B and ARINC family of protocols
- Specific interface boards have been developed for specific I/O requirements

## Major Advantages

- Use of actual avionics increases simulation fidelity while enabling simple upgrade of aircraft Operation Flight Programs (OFP)
- Field proven in a large number of delivered systems
- Familiar Windows interface
- Maximal use of commercial components

**Fighter ACD**

**Helicopter ACD**